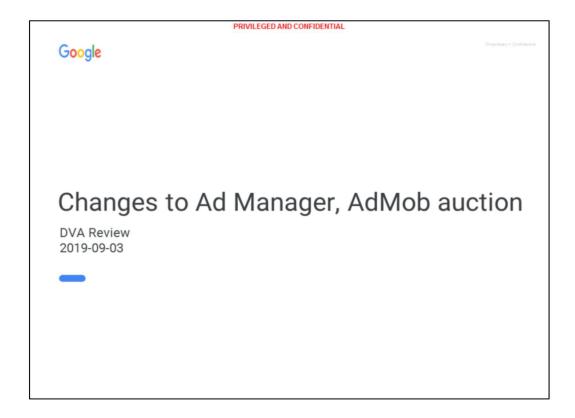
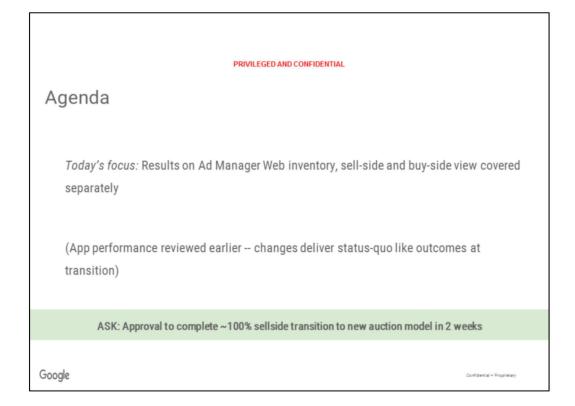
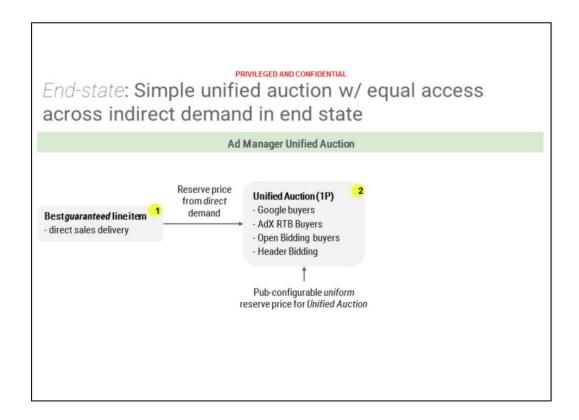
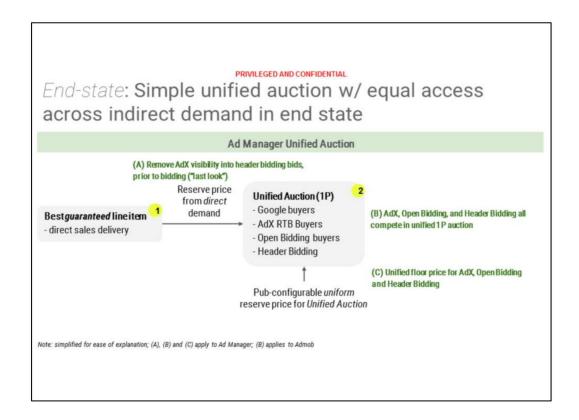
Exhibit N

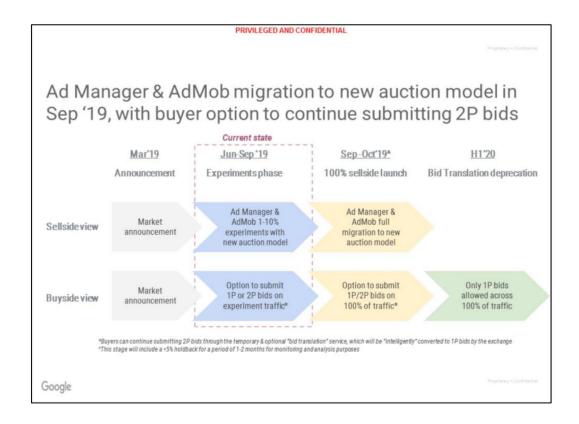




 -1.5% Google gross revenue; neutral Google net revenue; -1.4% publisher payment from Google; neutral publisher payment overall

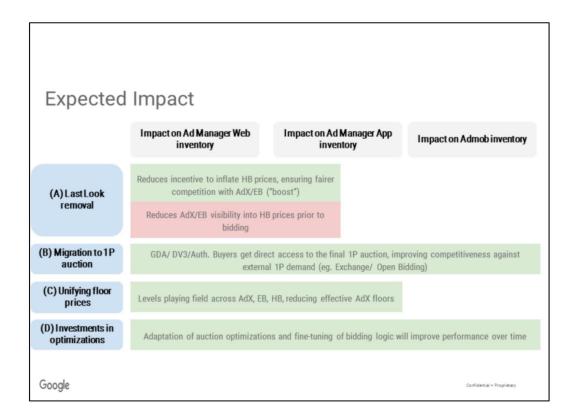






Buy-side view (web)	
Google	Confidential + Proprietary

Sell-side view (web)	
Impact of individual changes comprising this launch	
Google	Confidential + Proprietary



	Impressions	Value Clamped	Revenue	Google Profit	GDN profit	Post Revshare Payout	Aggregate:
LastLookOverDfpRemnant::GlobalControl 246003051 TOTAL * Adx_Only * Web	548,549,820	1,786,486	690,764	154,233	56,196.1323	511,824	• -9.6% revenue
tPriceFromSettingWinnerCostExperiment 246003052 TOTAL * Adx_Only * Web	496,914,005 -9.41% [-9.56, -9.26] %	1,699,227 -4.88% [-5.65, -4.12] %	624,314 -9.62% [-9.95, -9.29] %	144,356 -6.40% [-7.95, -4.86] %	54,296.8083 -3.38% [-7.79, 1.03] %	457,340 -10.64% [-10.79, -10.50] %	• -4.9% value
LastLookOverDfpRemnant::GlobalControl 246003051 Adwords_Buyer * Adx_Only * Web	333,223,170	418,763	248,815	73,917	35,312.8161	174,720	
tPriceFromSettingWinnerCostExperiment 246003052 Adwords_Buyer * Adx_Only * Web	-10.42%	375,698 -10.28% [-11.15, -9.42] %	220,983 -11.19% [-12.16, -10.21] %	69,427 -6.07% [-9.41, -2.74] %	34,838.0716 -1.34% [-8.48, 5.79] %	151,396 -13.35% [-13.48, -13.22] %	
LastLookOverDfpRemnant::GlobalControl 246003051 Dbm_Buyer * Adx_Only * Web	108,676,700	1,164,124	287,571	62,827	20,883.3162	200,201	
tPriceFromSettingWinnerCostExperiment 246003052 Dbm_Buyer*Adx_Only*Web	102,152,821 -6.00% [-6.18, -5.83] %	1,147,250 -1.45% [-2.59, -0.31] %	269,666 -6.23% [-6.43, -6.02] %	59,667 -5.03% [-5.32, -4.74] %	19,458.7367 -6.82% [-7.04, -6.61] %	187,530 -6.33% [-6.52, -6.14] %	

Unified Pricing meaningfully improves inventory access by leveling the playing field Impressions Value Clamped Google Profit Post Revshare Payout Revenue DBM impact: nt::DBM1xWithLegacyRulesAppliedPublic 395,382 323,221 221,945 • +8% revenue irstPriceAuctionExperiment::DBM1xPublic 248,115,966 +9.5% value 3.67% +39% nt::DBM1xWithLegacyRulesAppliedPublic impressions 60,424,780 47,798 51390104 Adx_Only * Second price|Private exchange * D 170,285 195,109 131,708 irstPriceAuctionExperiment::DBM1xPublic 83,970,264 Google

	Impressions	MatchedQueries	Google Profit	Value Clamped	Revenue	Ad	X RTB impac
Experiment::ControlSecondPriceAuctions 51390102 TOTAL * Adx_Buyer * Web	210,260,985	239,725,984	40,037	369,810	223,883	•	+21.7%
cGDNStaticNonVBBFloorGlobalAlchemist 51390159 TOTAL * Adx_Buyer * Web	30,252,572 23.33% [22.98, 23.67] %	35,004,690 25.16% [24.79, 25.53] %	5,736 22.80% [22.27, 23.33] %	37,525 -13.02% [-13.36, -12.69] %	30,950 18.49% [18.02, 18.96] %		revenue +43%
Experiment::ControlSecondPriceAuctions 51390102 Adx Only * Adx Buyer * Web	119,647,911	148,303,710	30,959	309,070	195,604		impression
cGDNStaticNonVBBFloorGlobalAlchemist 51390159 Adx_Only * Adx_Buyer * Web	19,964,068 43.02% [42.57, 43.47] %	24,685,111 42.67% [42.14, 43.21] %	4,716 30.56% [29.96, 31.16] %	30,682 -14.91% [-15.26, -14.55] %	27,772 21.70% [21.19, 22.20] %		

Buyers using Bid Translation service see improved competitiveness

	Impressions	Value Clamped	Revenue	Google Profit	GDN profit	Post Revshare Payout
nent::RtbSurplusMaximizerOffExperiment 263561114 TOTAL *Adx_Only *Web	432,803,661	1,358,981	557,220	118,764	37,909.0700	414,406
urplusMaximizerWithSmartBiddingControl 263561113 TOTAL * Adx_Only * Web	433,513,316 0.16% [0.04, 0.29] %	1,374,839 1,17% [0.56, 1,77] %	558,182 0.17% [-0.24, 0.58] %	118,029 -0.62% [-2.00, 0.77] %	36,720.4203 -3.14% [-7.26, 0.99] %	416,003 0.39% [0.15, 0.62] %
ment: RtbSurplusMaximizerOffExperiment 263561114 Adx_Buyer * Adx_Only * Web	56,279,098	94,383	81,054	13,526	0.0000	67,528
urplusMaximizerWithSmartBiddingControl 263561113 Adx_Buyer * Adx_Only * Web	57,950,269 2.97% [2.62, 3.32] %	98,275 4.12% [3,66, 4.59] %	83,777 3.36% [2.89, 3.82] %	14,068 4.01% [3.48, 4.53] %	0.0002	69,709 3.23% [2.77, 3.69] %
nent::RtbSurplusMaximizerOffExperiment 263561114 Demand_Syndication * Adx_Only * Web	39,150,319	53,609	53,594	2,791	0.0000	50,815
urplusMaximizerWithSmartBiddingControl 263561113 Demand, Syndication * Adx_Only * Web	38,951,665 -0.51% [-0.83, -0.18] %	53,378 -0.43% [-0.80, -0.06] %	53,363 -0.43% (-0.80, -0.06) %	2.777 -0.48% [-0.87, -0.09] %	0.0000	50,597 -0.43% [-0.80, -0.06] %

For AdX buyers, we maximize surplus in the BTS*:

- +1.2% overall value
- +4.1% AdX buyer value
- +3.4% AdX buyer revenue

* GDA/ DV3 are not using surplus maximizer, Rasta source

Google

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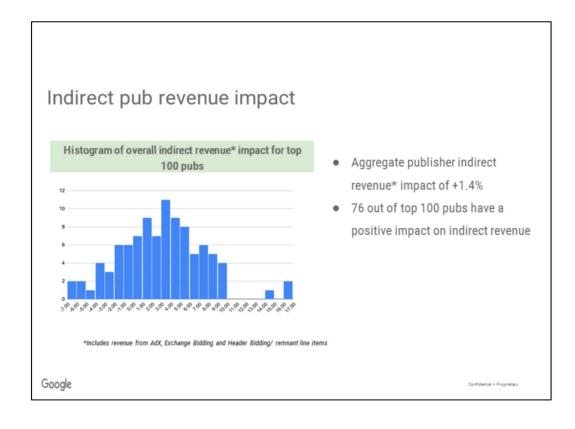
Bundled changes that simplify the product have near neutral impact

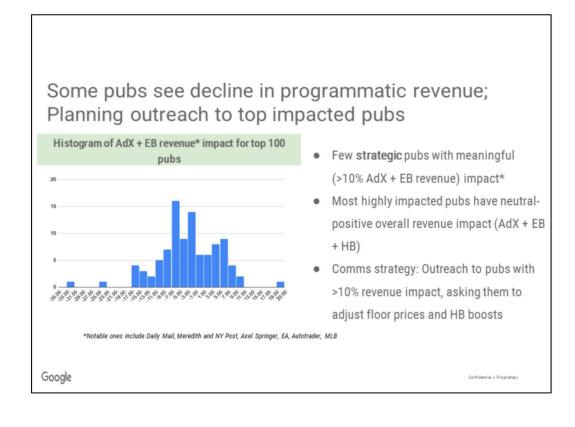
- Changes include unified protections, removing anonymous inventory, etc
- Rationale for these changes:
 - Significant product simplification: Clean separation of pricing from protections
 - Cleans up 'branding type' / removes anonymous inventory (not ads.txt compliant)
- Impact is < 1% AdX web revenue*

* when simultaneously enforcing old + new protections

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Summary

- Current results: Near neutral (~1.5%) impact on revenue
- Short term expectations: Improved Google performance as (1) AdX buyers stop overpaying, (2) Publishers remove inefficient header bidding 'boosts'
- Long term expectations: Continued investments in optimizations across sellside and external + Google
 buyers should further improve performance. Unified auction which buyers can directly bid into should
 result in better positioning to compete against external 1P demand (eg. open bidding)

ASK: Approval to complete ~100% sellside transition to new auction model in 2 weeks

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 -1.5% Google gross revenue; neutral Google net revenue; -1.4% publisher payment from Google; neutral publisher payment overall

Appendix	
Google	Confidential + Proprietary